

Model 8000

Network Interface Unit

Features & Benefits

Turnkey Internet Connectivity using VeritiumLive™ Web Network

10/100/1000 Base-T Ethernet

Wireless 3G Cellular Optional

8 Isolated Analog Input Channels

2 Isolated RS-232 Ports

Dual USB 2.0 Ports

Bluetooth® 2.0 + EDR Optional

Hard Disk Storage

Analog VGA Output

Universal AC Power Input

Compact and Lightweight

Robust Construction

Designed to IEC 60601-1-1 for Electrical Safety

Designed to IEC 60601-1-2 for Electromagnetic Compatibility

10 ft. line cord, 6 ft. Ethernet cable, and User's Manual included



The Model 8000 Network Interface Unit is a complete turnkey system designed to easily connect existing customer equipment to the Internet. Data is automatically routed to the VeritiumLive™ Web Network for real-time remote viewing, processing, and archiving. The system may connect to the Internet via an internal Ethernet port or optionally through the latest Wireless 3G Cellular Network.

The unit's front and rear panel layouts are clear, logical, and intuitive to the first time user. All connectors are located on the rear panel and a simple status screen on the front panel displays system information. The system can virtualize customer data from eight isolated analog inputs and two isolated RS-232 ports. An optional Bluetooth® 2.0 + EDR subsystem provides wireless connectivity to those customer devices which are Bluetooth® compatible.

The system is ideally suited for use in remote monitoring of industrial, scientific, and medical devices. Legacy equipment can now be easily connected to the Internet for remote viewing over the World Wide Web. Any combination of analog and digital data may be combined for presentation on the remote client side. Data from multiple units may also be routed to a single remote client page if desired.

The instrument is robust in construction and meets or exceeds all applicable US and EU electrical safety and environmental standards.

FEATURES		DESCRIPTION
Analog Input	8 isolated analog input channels with user defined input voltage range and sampling rate	Client side input configuration for parametric data, scaling, offsets, axis titles, axis ranges
RS-232 Serial Communication	2 isolated RS-232 input channels with user defined communication parameters	Custom protocols may be added at a nominal charge to support new and legacy equipment. Client side configuration may be used to format incoming data
USB Serial Communication	2 non-isolated USB 2.0 ports	Custom protocols may be added at a nominal charge to support new and legacy equipment. Client side configuration may be used to format incoming data
CONNECTIVITY		DESCRIPTION
Analog Inputs	8 isolated channels with BNC type connectors	
Input Impedance	10 Meg Ohm 20 pF	
Polarity	Single-Ended, Unipolar, 0 to 5 VDC Maximum Input Voltage, ±30 VDC	
Sampling Rate	User Specified 100 Hz to 1000 Hz. All channels sampled synchronously	
Sampling Resolution	16 bit	
RS-232	2 isolated RS-232 Serial Communication channels with DB-9 connectors	
USB	2 non-isolated USB 2.0 compliant channels with USB Type A connectors	
Bluetooth® (optional)	Bluetooth® 2.0 Standard + EDR Backward compatibility with older Bluetooth® devices with data transfer rates of up to 3 Mbps using Enhanced Data Rate technology. Custom protocols may be added at a nominal charge to support new and legacy equipment. Client side configuration may be used to format incoming data	
Wireless 3G (optional)	3G High Speed Cellular Phone Communication Standard Download speeds typically 600 to 1.4Mbps Upload speeds typically 500 to 800 Kbps	
VeritiumLive™	VeritiumLive™ Cloud Computing System System requires Internet connectivity to the Veritium Web Network to visualize data	
SYSTEM		DESCRIPTION
External Connections	8 BNC Analog Inputs 2 Type A USB 2.0 2 DB-9 RS-232 Serial Communication 1 802.3xx 10/100BASE-T Fast Ethernet 1 DB-15 Analog VGA	
Display Type	4 Line x 20 Character Vacuum Fluorescent System Status Display External Analog VGA External Network Configuration via Internet Connection	
Serial Connectivity	2 isolated RS-232 Serial Communication 2 USB 2.0 Bluetooth® 2.0 + EDR Optional	
Ethernet	1 802.3xx 10/100/1000 BASE-T Fast Ethernet	
Data Storage	Hard Disk Drive Volume Size Based on Customer Requirements	
Input Devices	All configuration performed through remote client connection with VeritiumLive™ Web Network	
Power Input	IEC-320 Power Input Connector 90-264 VAC 47-63 Hz Single Phase 40 Watts Maximum 1 Amp Fuses	
Dimensions	4.25" h x 13.75" w x 14.25" d (108mm x 350mm x 362mm) with protrusions	
Weight	5 lbs. (2.3 Kg)	
Environmental	Operating Temperature 0 – 60°C (32 – 140 °F) Operating Humidity 0-90% Relative Humidity, Non-condensing	
Supplied Accessories	Power Cord, 10 ft. shielded, with hospital-grade plug Ethernet Cable, 6 ft. Operator's Manual Handles for portability Tilt-Up Feet for viewing convenience	